

SENIOR DINNER HELD IN WALKER MEMORIAL

Dr. MacLaurin, Lieutenant-Colonel William C. Rogers, Professor Pearson and Hon. Henry G. Wells Speak

TRIBUTE PAID MEN IN SERVICE

The Senior Dinner of the Class of 1918, held Saturday evening, was the first to be held in the Walker Memorial and was attended by one hundred and thirty-eight men, a decrease from the number attending last year's dinner of over one hundred, due to the depletion made by the war in the ranks of the class. Owing to the fact that from now on, men will be leaving in large numbers to enter the service, having completed enough work to receive their degrees, the dinner was the last function to be held by the complete class now in the Institute.

After dinner much enthusiasm and life were displayed, aided in part by the five-piece orchestra, an enjoyable feature of the evening's entertainment. Especially keen was the rivalry in yells given by the different courses, although it was admitted by all that "There are only four of us here, they didn't advertise beer, Course IV," drew the greatest applause.

President MacLaurin, the first speaker, commended the class on what it has accomplished during its stay at Technology, and congratulated the men on their wisdom shown, in staying to complete their courses, and thus fitting themselves for better service to the country. He also spoke of the plan of putting the Institute on a war basis in order that the men in all the classes might be available for service much sooner than otherwise.

Lieutenant Colonel William C. Rogers, Judge Advocate General of the Governor's staff, then spoke. Governor McCall had hoped to be able to come, but state affairs making this impossible, he sent Colonel Rogers in his place. Colonel Rogers advised each man to find that place in the great national wheel where he, as a technically trained man, would be of the greatest service.

R. W. Van Kirk, toastmaster, then called for a tribute to those members of the class who are already in the service, two of whom have died recently. Everyone stood in silence for one minute, after which the orchestra struck up the national anthem.

Hon. Henry G. Wells, President of the Massachusetts State Senate, the third speaker, claimed the Governor had sent him also, but in addition, stated his opinion that it would take both

(Continued on page 3)

ELECTRICALS HOLD SECOND TRIP TO CHESTNUT HILL

Twenty Men Visit Largest Plant in New England

Last Monday afternoon twenty members of the Electrical Society held a second trip to the Chestnut Hill Pumping Station, the largest in New England, to inspect the plant as to its equipment and method of operation. This station supplies Greater Boston with fresh water, pumping over thirty-five million gallons per day, at a pressure of one hundred and twenty feet. The water is led from the reservoir in Clinton, Mass., to the station and then forced through a forty-eight inch main to different parts of the city.

The power plant of the station is divided into two sections one of which is operated under high pressure for the benefit of the fire fighting apparatus and for use in the business section of the city, and the other part is under a low pressure for the residential parts of Boston.

The water pumping machinery consists of triple expansion reciprocating engines which turn at a speed of nineteen revolutions per minute and weigh over seven hundred tons each.

The station is lit by a one hundred and ten volt, fifteen K. W. generator turned by a Fitchburg engine.

TECHNIQUE 1919 STARTS DRIVE FOR SUBSCRIPTIONS

The results of the first day's canvassing for the Technique 1919 sign-up campaign show that almost one hundred books have been subscribed for. The campaign will continue until the Christmas recess, by which time the Technique Board expects to have disposed of at least a thousand copies of the year book. A deposit of seventy-five cents is required for ordering a copy of Technique, and payment of the remaining two dollars will be required when the book is delivered.

The Technique Board will publish in this year's issue of the annual a complete account of the work Technology has done in support of the Government, and what Technology men are doing and have done to carry on the war.

Arrangements have been made with the postal authorities to send copies of the year book to those men who expect to leave the Institute before the appearance of the issue. These men will sign up as usual, but should instruct the agent that they wish the book sent to a certain address. A note will be made of this and the book will be sent C. O. D. (including postage) to any point in the United States.

WINTER CONCERT NEAR

Two Performances This Week by Combined Musical Clubs

Tuesday evening the Combined Musical Clubs of the Institute will give a benefit performance at Nutting's-on-the-Charles in Waltham. This is the largest local affair which will be undertaken this season by the clubs, and is receiving the support of a large number of people from Waltham. Both of the government aviation schools at the Institute and the radio school at Harvard will be well represented. The admission to the concert and dance is to be fifty cents per person, tickets being obtainable at the office of the clubs and at the Cooperative Society.

Manager Dalton '19, has also arranged a concert at Simmons College, to be given Saturday evening, December 8, in conjunction with musical clubs from other colleges. The concert, which is to be held in the South Hall Refractory, will be followed by a dance.

Both of these concerts are to serve as preliminaries for the Winter Concert, the big event of the year for the Combined Clubs, which is to be held in the Somerset Ballroom. Loew's troupe of musicians will furnish the music during the dancing. The programs can be obtained at the Musical Club office, the Information office or the Walker Memorial dining room. The regular orders will be issued one week in advance of the concert. Single tickets or reservations for ten or more may be had today at the club office in the Activities building on Massachusetts Avenue or from members of the clubs.

Members of the clubs who are going to Waltham will meet at the North Station Tuesday evening at 7.00 o'clock. They will leave by the 7.05 train and return by electric cars.

Others who are going to attend the concert can reach Waltham by taking the 7.05 train from the North Station to Riverview, or the car to Watertown or Newton, and then to Waltham. The trip from Boston by trolley is about an hour. There will be special cars after the dance running to Watertown and probably to Newton.

TECHNOLOGY MATRONS TO BE HOSTESSES AT TEA

The Technology Matrons take this opportunity to extend a cordial welcome to the women students at their Institute and to all members of the Instructing Staff to a tea in the Emma Rogers Room tomorrow, December 4, from 3.30 to 5.30 o'clock.

NOTICE

The men not yet paid who acted as ushers at the Brown-Dartmouth game may get their checks by calling at the Braves Field office.

NO MCKAY MONEY FOR TECHNOLOGY

Supreme Court Ruling Prevents
Harvard's Giving Any Part of
\$50,000,000 Endowment to In-
stitute Engineering Courses

DONOR MILLIONAIRE INVENTOR

Technology can have no share in the income, now being paid over in part to Harvard University, nor to the residue of the Gordon McKay Endowment, which when eventually paid over to Harvard probably will amount to between \$25,000,000 and \$50,000,000.

A decision by the full bench of the Supreme Court last Tuesday afternoon declared that no part of the McKay bequest can be transferred to Technology under the agreement between the two schools under which Harvard suspends its instruction in applied science and devotes three-fifths of the endowment to the maintenance of the engineering department at Technology.

The decision is on the petition of Harvard to have the court ratify the agreement in that the Institute might receive some of the benefits from the McKay Fund. The result probably means that Harvard, which abolished the Lawrence Scientific School to merge its courses with those at Technology, will have to re-establish a school of applied science under the direct administration of its overseers and possibly with buildings located in the group at Harvard Square.

The endowment is founded under the will of the late Gordon McKay, millionaire inventor. The will was confirmed in 1891 when Mr. McKay was seventy years of age. He had been a successful manufacturer and inventor of machinery, was a man of artistic tastes, a lover of music, and had traveled extensively in Europe. From 1864, for more than twenty years, his home was in Cambridge, near the college yard, and was brought into friendly relations with many of the teachers and students of the University. He appreciated the advantages of combining training in the exact sciences with liberal culture in the atmosphere of the University. During all those years there was a close personal intimacy between him and the late Professor Shaler, long connected with the University and appointed dean of the Lawrence Scientific School in 1891. It was with the latter that Mr. McKay discussed his scheme for the disposition of his fortune.

Though the residue of the estate will not be turned over to Harvard until after the death of the last of 18 annuitants provided for in the will, millions of dollars of income have already been turned over to the University. The provisions of the will are, such however that the principal continues to gather enormous accumulations.

The court, in its decision said: "We are constrained to instruct the plaintiff corporation that it cannot lawfully carry out this agreement between it and the Institute, as far as respects the property received by the University under the deeds of trust and the will of Gordon McKay." The opinion of the court further stated that because the educational and research work in the five engineering branches specified in the agreement is being carried out wholly at the Institute, and because some of the Harvard professors who were also transferred are now considered as members of Technology's faculty, the court could not "assent to the assertion that the school of applied science on the Charles River Embankment is a Harvard school, a department of Harvard University." In support of this objection the court said that students register in these courses only at the Institute, but it was admitted that students of Technology may use the Harvard libraries and museums as well as receive degrees from both institutions on completing any of the five engineering courses of the agreement, namely, civil, mechanical, electrical, mining and sanitary engineering.

PRESIDENT MACLAURIN SPEAKS ON ENLISTMENT AND DRAFT PROBLEMS

Advises Preparation For Later Service as a Patriotic
Duty and Discusses Reasons Given For
Present Enlistment

NEW RULING EXPLAINED

THAT the draft relieves every citizen from the responsibility of enlisting was the gist of President MacLaurin's address of last Monday's convocation held in Smith Hall, room 10-250. The President dwelt considerably on the problems that confront Technology's older students in regard to the possibility of being drafted, and dispelled the fears of some of the younger men in regard to the lowering of the age limit. The advice to all was to prepare for service later, not to rush into it now, unprepared and capable of filling only a minor position.

The immediate occasion of the convocation was the ruling of the War Department closing enlistment to all after December 15. This ruling caused great unrest among the undergraduate body and it was to offset this uneasiness on the part of many students that the president addressed the student body.

President MacLaurin said that voluntary enlistment was to a great extent a matter of conscience and that he would not discourage the plans of anybody determined to enlist. It was emphasized, however, that the draft really presents the logical means of service and opportunities for advancement are just as numerous for the draftee as the volunteer.

Dr. MacLaurin discussed most of the important reasons for enlisting and placed in contrast to these, reasons for awaiting the draft. A telegram from Secretary of War Baker was read to the assembly, explaining the December 15 ruling.

"Students here and elsewhere," began President MacLaurin, "have been greatly disturbed recently by changes that have been made or suggested in the draft regulations and by the order suspending the opportunity for enlistment after December 15 next. When the numbers of the draft were first announced men settled down more calmly to regular work as the numbers assigned enabled them to tell with approximate accuracy what were their chances of being drafted in the first call or somewhat later. The revision of the draft regulations and the adoption of the so-called selective draft completely upset all these calculations and naturally produced a very great deal of unrest. I feel, however, that a good deal of the unrest might be allayed by calm consideration of the issues that are presented.

"The rules regarding the age limits of the draft are laid down not by any single official or Bureau but by act of Congress. The suggested lowering of the age limit can not therefore be made except by Congress and there will doubtless be very great opposition to

(Continued on page 2)

TECH SHOW COMPETITION

The first cut in the freshman candidates for the publicity department of Tech Show was made last week. Of the eight men who were competing, three have been retained and from these three, two will be appointed freshman publicity assistants at the end of the competition. The men who survived the first cut are J. G. Lee '21, E. H. Baker '21 and A. D. Harvey '21. These men will report at Tech Show office Tuesday at 5.00 o'clock.

NOTICE TO 1921

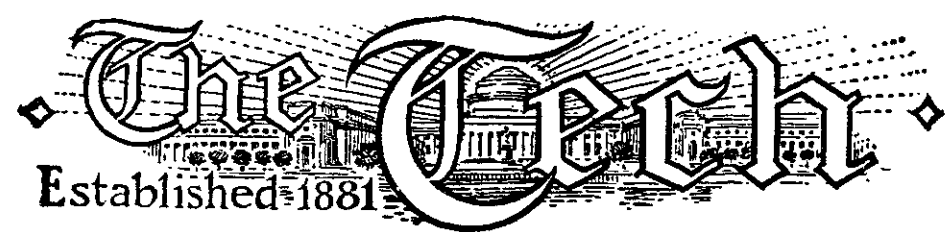
Course conferences are to be held by the heads of the various departments of the Institute beginning today. All freshmen desiring to attend these talks will find the schedule of the meetings on page 3 of this issue.

THERE WILL BE A MEETING OF
THE SECOND ASSISTANT AD-
VERTISING MANAGERS OF THE TECH
TOMORROW AT 5.00 O'CLOCK.

THERE WILL BE AN IMPOR-
TANT NEWS MEETING TOMORROW
AT 1.05 O'CLOCK IN THE TECH OF-
FICE. ALL CANDIDATES AND MEM-
BERS OF THE NEWS STAFF ARE
REQUIRED TO BE PRESENT.

CALENDAR

Monday, December 3, 1917
1.00 P. M.—Hockey Team Meeting.
Room 2-190.
1.00 P. M.—Prof. Spofford's Confer-
ence. Room 3-270.
3.30 P. M.—Technology Matrons' Tea.
Emma Rogers Room.
Tuesday, December 4, 1917
1.00 P. M.—Prof. Lindgren's Confer-
ence. Room 4-355.
5.00 P. M.—Show Publicity Managers'
Meeting. Show Office.
8.00 P. M.—Musical Clubs Concert.
Waltham, Mass.
Wednesday, December 5, 1917
1.00 P. M.—Prof. Miller's Conference.
Room 10-275.



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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. The Tech assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

The Editor-in-Chief is always responsible for the opinions expressed in the editorial columns, and the Managing Editor for the matter which appears in the news columns.

IN CHARGE THIS ISSUE

A. Kruse '20.....Night Editor
G. Russell Steininger '21.....Assistant Night Editor

MONDAY, DECEMBER 3, 1917

ATTENTION, EVERYONE

IN an institution as large as Technology there is bound to be a small disturbing element whose childish instinct of creating mischief overpowers its knowledge of what is proper. We have been in these new buildings a little over a year, yet conditions in many of its corridors and rooms are indicative of the vandalism of the thoughtless and disreputable student. So much, in fact, practically all, of this work is visible in Building 2 that we are inclined to place the blame for these crudities on members of the freshman class. As a whole the first year class seems to have realized that it has passed the "peep" school stage and has been assimilated into an organization which will not encourage or tolerate any childish pranks, but there are some yearlings who cannot grow up.

Our new Institute is admittedly a beautiful structure and we should take a pride in it and do our utmost to preserve its esthetic value. Just as the poor drilling of one man can spoil the appearance of a battalion, so can a dent or scatch, the first thing to be noticed by a visitor—and we have many—destroy much of the beauty of the buildings. Some of the blame can be placed on the orderly and decent student who has been content to let the vagrant continue his work undisturbed. This placid disinterest must stop. Let everyone cooperate in ridding the Institute of the distinct evil and menace created by the few who insist in scratching on and marking the Institute property and buildings.

TARDINESS

IT is indeed unfortunate that when President Maclaurin calls a Convocation it should be necessary for him to pause during his address to wait for the disorder created by a hundred or more late comers to become dissipated. We regret that so many of our fellow students cannot be on time for a meeting convened in their own interest. The occurrence was a mark of disrespect to the President as well as a cause of annoyance to the rest of the audience. We sincerely hope that a repetition of such tardiness as at the time of our last Convocation will never occur.

The Senior Dinner held last Saturday brought before the graduating class the fact that not only Technology men, but also outsiders agree that those who remained at the Institute have acted probably for the best. As pointed out by the speakers, the completion of our training will better enable us to aid the country in the war.

As to the suggestion made by one of the speakers that some went to the training camps to avoid contact with the rank and file, this is in very few cases probably true; but on the whole the men who left did not leave to get good berths, but rather to serve as they thought they were best fitted to. We who have remained behind should withhold any criticism of those who have gone and who have given to the country the most that any man can give.

Technique 1919 has started its signup campaign and it is advisable for the men who will probably leave the Institute before the publication of the year book to order their copies now. Sign up today.

The Tech regrets to announce the resignation of O. Donn Burton '18, Circulation Manager, who has left to take up work with the Gas and Flame Battalion. Last Summer when The Tech was incorporated as the official organ of the Alumni, when the publication of the paper meant the sacrifice of a vacation, Burton remained at the Institute throughout the Summer to act as Circulation Manager. Arthur E. Farrington '19 will succeed Burton as Circulation Manager.

Alumni Notes

The following is an extract from a letter received from Captain Howard C. Blake '06, now stationed at Fort Leavenworth, Kansas.
Managing Editor, The Tech,
Cambridge, Mass.

Dear Sir:—
"I was fortunate in having a hand in the organization of the first Pacific Coast Alumni Association, of San Francisco, though I am now a member of the Los Angeles Association. For several years I had the pleasure of acting as secretary-treasurer of the San Francisco Association.

My home is now in sunny California, but I was born and brought up in Boston and Boston will be "back home" always. I am fortunate in possessing a wife and two future Technologists, not "Cleofans," aged 4 and 2 respectively.

This information is forwarded because I hold a commission in the Engineers' Reserve Corps as captain and am at present stationed at Fort Leavenworth. Possibly this address will change in the next few days, but then, "I'm in the army now."

You of course realize the pride every Tech man takes in what the Institute and Alumni and undergraduates are doing in this great war.

Very truly yours,
Howard C. Blake '06,
Capt., E. R. O. C.

Mr. Alex. R. Holliday '99, writes he has just been appointed Assistant Federal Fuel Administrator for Indiana, the work has been taking up the major portion of his time as conditions in Indiana are quite critical. There is no salary attached to the work, but there is an opportunity to do a great deal of pioneer work which will be interesting.

DRAFT RULINGS

(Continued from page 1)
this lowering at least in the near future. Congress and the country will have to be convinced that enough men can not be obtained within the present limits without a serious dislocation of industry. It is not only useless, but recognized as useless, to draft men until means are provided for training them and until the Government enlarges its training camps there is no probability of a considerable enlargement of the number of men drafted. Not even Washington can do more than keep the camps full. I do not think, therefore, that students much under the present draft age need be unduly disturbed. In my judgment, they should go on as calmly as they can with their regular work always, of course, facing the possibility of a change of circumstances that will bring them under the operation of the draft. The thing to do here is unquestionably to prepare for service later rather than to rush into it unprepared.

"The motives that impel men to enlist now are, of course, numerous and if I single out three or four of them, it is merely because they seem to me to deserve some comment. One of these motives is to avoid the stigma of being drafted. Men say, doubtless with the utmost sincerity, that they are thoroughly willing to serve, and if their services are needed that they would rather that they were entirely voluntary than performed under an apparent compulsion. This does not seem to me to be a reasonable view of the situation. There should be no stigma to the draft, and it is largely because some men enlist and some are drafted that any stigma still attaches. This is probably one of the reasons why enlistments are being abandoned although the unnecessary cost of enlistment is doubtless also a reason. The theory of the draft is based on the supposition that in a democracy every man should be willing to give the last full measure of his devotion to the ideals of his country in order to make the world safe for democracy.

"Another reason suggested for immediate enlistment is that such enlistment increases the opportunity of becoming officers. This seems to me a baseless supposition. You can gain commissions in two ways, first, for certain restricted branches of the service by examinations and these examinations are open to you without enlistment. In most other cases, you must become an officer if at all by attending one of the officers' training camps and meeting the requirements imposed by the military authorities. There are two ways of getting into these camps, one is through the college and another through the existing camps for drafted men such as that at Ayer. You know, doubtless, that training camps for officers are to

(Continued on page 4)

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SENIOR DINNER
(Continued from page 1)
Colonel Rogers and himself to adequately represent the Governor. After telling a number of interesting stories, he adopted a more serious tone and gave a splendid appeal for each member of the class to take an active interest in the affairs of state and country. He expressed his wish that all the men would not only be beneficiaries of the past but trustees of the future. His address was most inspiring and was greeted with applause from all.
Professor Robinson, the last speaker, contributed greatly to the merriment with a number of well-directed jokes and suggestions. In introducing Professor Robinson, the toastmaster said that he had never had him in any class and really did not know whether it was his good or bad fortune. Professor Robinson defended himself admirably, however, in saying that he had been obliged to wait four years to address the class, was fourth on the program, and had been given but four minutes in which to say something.
The dinner concluded after the singing of the Stein Song.

ELECTRICAL ENGINEERING SOCIETY HAVING SUCCESSFUL YEAR
The Electrical Engineering Society at the Institute now has 140 members, the maximum in its existence. It is carrying on a series of trips to plans about Boston that are of interest to electricians, and is a frequent visitor to the General Electric Co. works at Lynn.
In the wireless course that the society has organized, there are sixty men enrolled. This course is intended to give Technology undergraduates skill and experience in wireless telegraphy. Albert Murray, who is the instructor, is writing a special manual which will appear as a serial in the Technology Monthly.

PROFESSOR HAYWARD SPEAKS BEFORE AERO CLUB MEMBERS
Precautions Taken Against Divulgence of Secret Information
"Wires and Turnbuckles" was the subject of a lecture given by Professor Hayward, head of the Testing Materials Department, to the Aero Club last Friday evening. His talk was preceded by a business meeting, at which it announced that the shingle drawn by V. Hafner '18, had been officially accepted. The meeting was held under the new wartime rulings of the club adopted to prevent an information from getting into circulation.
Professor Hayward described the methods of drawing wire and illustrated this by slides. He discussed its uses in airplane manufacture and mentioned the substitution of cables for it.
He then took up the part that the turnbuckle plays in the airplane structure and the importance of its accurate construction. European practice, he said, provided for a nicely machined product whereas in this country the shape of the article did not seem to concern the manufacturer. The form of a turnbuckle is, nevertheless, of great influence in determining its tensile strength.

The war-time measures adopted by the club were necessitated by the information which is given out in the courses and at the lectures. Much of this is new and it is important to the government that it should not be allowed to circulate beyond the membership of the club. To this end, the officers have decided to prevent any non-member from attending the meeting and to eject from the club any member of suspicious character.
Every man coming to a meeting or lecture must therefore present his membership card at the door and attendance is taken. The nationality of each member is also being looked into and any further steps necessary will be taken care of.

COURSE CONFERENCES TO BE HELD BY DEPARTMENT HEADS
Members of Faculty to Meet Freshmen in Course Conferences
The following Professors have arranged to meet freshman intending to take their courses and will endeavor to clear up any indcision in the minds of the first year men regarding their future work. The time arranged for these conferences are as follows:
Courses I and XI: Professor Spofford on Monday, December 3, at 1.00 o'clock, in room 3-270.
Course II: Professor Miller on Wednesday, December 5, at 1.00 o'clock, in room 10-275.
Course III: Professor Hofman on Thursday, December 6, at 1.00 o'clock, in room 10-250.
Course IV: Professors Cram and Lawrence on Tuesday, December 11, at 1.00 o'clock, in room 10-250.
Courses V and X: Professor Talbot on Friday, December 7, at 1.00, in room 10-275.
Course VI: Professor Jackson on Wednesday, December 12, at 1.00 o'clock, in room 10-275.
Course VII: Professor Sedgwick on Monday, December 17, at 1.00 o'clock, in room 10-419.
Course VIII: Professor Wilson on Thursday, December 13, at 1.00 o'clock, in room 4-236.
Course XII: Professor Lindgren on Tuesday, December 4, at 1.00 o'clock, in room 4-355.
Course XIII: Professor Peabody on Friday, December 14, at 1.00 o'clock, in room 10-275.
Course XIV: Professor Goodwin on Tuesday, December 18, at 1.00 o'clock, in room 4-108.
Course XV: Professor Dewey on Monday, December 10, at 1.00 o'clock, in room 4-270.


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DRAFT RULINGS

(Continued from page 2)

be maintained from the beginning of the year and that a quota of between forty and fifty has been assigned to Technology to be filled at the discretion of the Professor of Military Science and Tactics. This means of training will doubtless be continued throughout the war and men in the Institute will have an increasing opportunity of gaining commissions in this way. You must not, however, overlook the fact that you can gain commissions by proved capacity at such camps as at Ayer; it is a part and indeed a large part of the duty of officers at these camps to pick out men who should be promoted to officers' rank. The drafted men will be constantly under observation with this end in view and as the demand for officers increases, as it inevitably will when we really get into the fight there can be little doubt that practically every man with any real capacity for leadership will get his chance.

"Another reason suggested for early enlistment is the interpretation that has been put on the recent order suspending enlistments after December 15. Men have said that now is the last chance. If they do not enlist before December 15 they can never do so. They are willing to wait patiently for a limited period in order to finish their technical courses provided they may have a chance of service later but they want that chance and they will enlist now rather than lose the chance forever. To clear up this matter, I telegraphed recently to the Secretary of War and the reply received yesterday is as follows:—The suspension of authority for voluntary enlisted registrants effective December fifteenth will not be construed as preventing enlistment of qualified candidates for Reserve Officers' Training Camps. The new regulations provide for voluntary induction of registrants into the service out of their regular order which it is believed will satisfactorily cover cases of students under technical training. That seems to me to settle the matter. If you really want to fight you can get into the service after December 15 just as before except for technical forms and phrases.

"Another reason suggested for enlistment is that this presents an opportunity for what has been called selective service. Men say that by enlisting they can pick out the particular branch of service that interests them whereas if they are drafted they will have to go wherever they are ordered. It must be observed that it is true generally that a man whether he enters the service by voluntary enlistment or by draft must go where he is ordered. It is true also that the desire of the military authorities is to make the best use of the drafted men, and it may be assumed that they will use their best endeavors to place the men where their services will be most effective. Drafted men will certainly have an opportunity of expressing their preference and if preference and capacity run together

men should get what they want whether they be drafted or not. If preference and capacity are not in accord then serious trouble will follow if men enter a selected service by enlistment.

"As a matter for general consideration I should perhaps point out that the disruption of a technical course involves a far greater loss than the disruption of a course in an ordinary college. I do not mean by this to express any opinion as to the relative value of technical and non-technical courses. What I have in mind is the fairly obvious fact that if you cut the last year off of an engineering course of four years' duration you diminish its value by at least one-half, and if you cut off two years you reduce its value practically to zero, as far as its usefulness from a technical point of view is concerned.

"In conclusion I should like to say that the operation of the draft relieves every citizen from all responsibility regarding the number of men required in military service. Those in authority can draft as many men as they think are needed and there is no obligation on any one else to press forward his claims for service. The military needs will be cared for as a prime necessity. There is a grave danger, however, that the industrial needs will be overlooked or disregarded, and if the wheels of industry do not go round as they should the military effectiveness of the country will suffer. Both during the war and for several years after its conclusion, the demand for technically trained men will be far greater than ever before, and not only the demand, but the need. Every student, therefore, should seriously consider whether he is doing right as a patriotic citizen in disrupting his technical training. I do not say that he is not doing right. There may be many cases where that right is clear. It is a matter for the individual conscience, and I dictate to no man regarding such affairs. Much seems to me to depend on the motives impelling you to enlist. If you enlist because you are restless I see nothing patriotic in your action, but if you wish to enlist after due deliberation of all the grave issues that are presented, then I say enlist and press forward eagerly to service."

SWIMMING TEAM MANAGERS

Competition for first and freshman assistant manager for the Swimming Team closed Saturday. The contest had been conducted for the last month and was strong in most instances. Theodore F. Hobson '20 has been chosen first assistant manager and Richard McKay '21 has been elected freshman assistant manager.

DR. LOEWENSTEIN ADDRESSES ENGINEERING SOCIETIES

Tells of New Blast Furnace That Produces More Iron

Last Tuesday evening the student branch of the A. I. E. E. and their guests, the members of the Chemical, Mechanical and Mining Societies, were addressed by Dr. L. C. Loewenstein, Consulting Engineer of the General Electric Company. Dr. Loewenstein talked on the modern methods of controlling the air supply of blast furnaces. Although the subject was a technical one, even the uninitiated could understand the greater part of it, due to clear presentation.

First the importance of a careful regulation of the air supply of a blast furnace was explained. Volume and pressure must be correct in order to obtain the best results. Reciprocating pumps were used in the old type of machinery and as long as iron continued to flow from the furnace little attention was given to the amount of air and its pressure that was being supplied. The man in charge would observe the conditions in the furnace as well as he could and then give orders according to his own judgment as to the air supply necessary.

The new machinery makes use of a special type of centrifugal air pump which is driven by a turbine. The volume of oxygen required, in the reduction of the ore to be used, and the corresponding amount of air is determined in the laboratory. This volume is constantly supplied by the pump, and in addition the pressure is automatically regulated to suit the conditions inside the furnace.

The latest improvement upon the machinery is an ingenious instrument that regulates the air supply so that the amount of oxygen remains constant although the temperature, barometer and humidity change.

Between fifteen and twenty per cent. increase in the production of iron is obtained by the new methods. The quality of the iron is better also. Floor space and operating cost are much less for the new machinery than the old.

1919 AND 1921 ENTERTAINED

One Hundred and Fifty Students Are Guests of Dr. MacLaurin

Last Saturday evening over one hundred and fifty Juniors and freshmen were entertained by President and Mrs. MacLaurin in their beautiful new home. The music was furnished by the student orchestra, and Technology songs were sung by the guests. Conant '21, gave several amusing monologues, and a game of celebrities was played in which a card with the name of some celebrated person was pinned on each guest's back. The name of this guest was to be guessed by asking questions which were to be answered only by the words yes or no. After refreshments were served the winner of this game was announced to be Miss C. J. Brennan '19, who modestly thanked everybody for holding back so that she could win. This reception gave the students a chance to meet President and Mrs. MacLaurin in an informal way, and a pleasant evening was spent by all.

CHEMICAL SOCIETY TRIP

The Chemical Society will take a trip to the Carter's Ink Co. plant on Thursday of this week. Professor Talbot invites the class in Industrial Chemistry to accompany the Society. No signups are necessary. All men who are going will meet in the main lobby at 2.00 o'clock Thursday afternoon.

HOCKEY TEAM MEETS TODAY

A meeting of the Hockey Team will be held today at 1.00 o'clock in room 2-190. Manager H. P. Duffell '20 announces that all new men on the team will be under close observation during the coming season, in order that in the spring an Assistant Manager may be picked from among them.

TIME EXTENSION GIVEN TO SENIORS FOR PICTURES

Owing to the fact that so many Seniors have put off making appointments for their pictures for the Senior Portfolio, the 1919 Technique Board has found it necessary to make arrangements for extra hours with the photographer in order to accommodate the late men. The hour of 10.00 to 11.00 o'clock has been reserved at Notman's Cambridge studio, 1286 Massachusetts avenue, Harvard square; and appointments can be made for the Park street, Boston, studio for the hours of 12.30 to 2.30 o'clock daily, including Saturday. The attention of all Seniors is called to the fact that because of the greater expenses entailed in the publication of the annual this year, the 1919 Technique Board cannot afford to extend the time limit for these formal sittings, and therefore all appointments with the photographer must be made before the end of the week. Each sitting will take only ten minutes.

All Seniors who have not already done so, are requested to hand in their statistics cards and informal negatives at the Technique office as soon as possible.

DORMITORY MEN ORGANIZE BOWLING TOURNAMENT

Keen Rivalry Among Ten Teams for Championship Cups

Under the leadership of the Dormitory Committee a dormitory bowling league has been formed. The league is composed of fifty men divided into ten teams of five players each, while one member of each team has been appointed captain.

A schedule has been drawn up providing for matches on two evenings each week. At the end of the season cups will be given to the members of the winning team, and to the individual record holders. Within a week the all-dormitory team, consisting of the five high bowlers in the league, will be chosen.

Schedule for this week—Tuesday, December 4, Atkinson 2 vs. Holman 2; Wednesday, December 5, Atkinson 3 vs. Runkle 1; Runkle 2 vs. Nichols 2. The first matches on the schedule of the Dormitory Bowling League were held last Tuesday night on the alleys in the Walker Memorial Building. The scores were—

First match:

Team	Score	Won
Runkle 2	350 394 402	2
Atkinson 1	357 376 389	1

Second match:

Team	Score	Won
Nichols 1	385 399 342	2
Holman 1	358 358 389	1

High single—Insley (Nichols), 102.
High average—Sarr (Holman), 90.

ENGLISH HIGH CLUB HEARS FORMER PROFESSORS

Professors Tower, Benson and Miller of English High School were the speakers at the English High Club meeting held last Wednesday afternoon. E. Milne, E. H. S. '16, also spoke upon his experiences as an ambulance driver in France.

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Technology Men
in War Service

The Tech wishes to print the names of Technology men in War Service, whether in a military or industrial capacity, together with the branch of such service with which they have allied themselves.

Notification of any corrections or changes in the information given in this column will be appreciated.

Address any information of this character to the Managing Editor, The Tech, Massachusetts avenue, Cambridge, Mass.

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